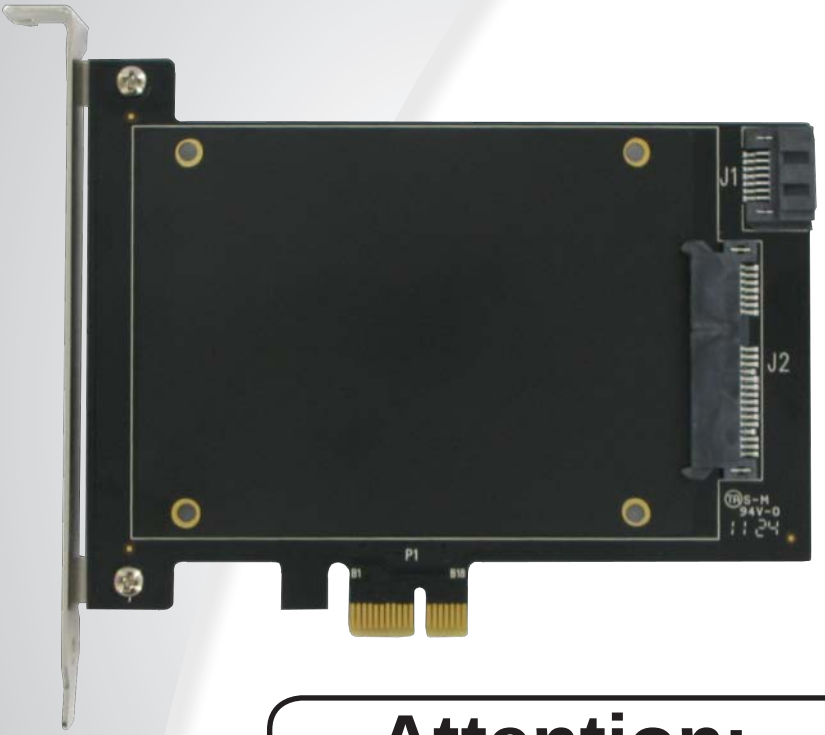
Velocity Solo

DESKTOP SSD UPGRADE KIT

User's Guide



Attention:

Download the new EZ Gig IV from Apricorn's website at:

http://www.apricorn.com/ezgig

Review the most current Velocity Solo FAQ's at: **http://www.apricorn.com/support.php**

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Getting to know your Velocity Solo

Introduction

Easy to install, the Velocity Solo is an industry standard PCIe 2.0 card designed to add a 2.5" Solid State Drive (SSD) via a super fast SATA III connection. At 6Gbs, SATA III is twice as fast as SATA II and takes full advantage of the latest SSD. The Solo also provides an additional SATA III data connection that can be used to connect to another SSD or HDD to provide unparalleled capacity and performance.

Package Contents

- Velocity Solo Card
- Mounting Screws

Cloning Software Dowload
- Apricorn EZ Gig IV

- Quick Start Guide

To prevent ESD (Electrostatic Discharge) damage IMPORTANT HANDLING INFORMATION

Use an ESD wrist strap or discharge static electricity by touching a grounded bare metal surface before handling, installing, and removing the Velocity Solo. Observe proper ESD grounding techniques. Store your HDD or SSD in an anti-static bag until you are ready to install it in the system. When installing and removing the Velocity Solo Card hold by the edge of the printed circuit board (PCB), and avoid touching components including connectors.

System Requirements

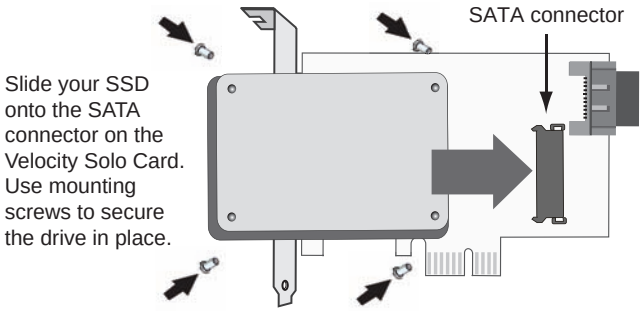
Hardware: Desktop System with PCIe 2.0 slot
Internet Access required to download Cloning Software

Supported Operating systems for Cloning Software:

Microsoft: Windows 7, Vista and XP

Connecting your SSD to the Velocity Solo Card

1. Slide your SSD onto the SATA connector on the Velocity Solo Card.
2. Use the included mounting screws to secure the drive in place.


SATA connector
Slide your SSD onto the SATA connector on the Velocity Solo Card. Use mounting screws to secure the drive in place.

Installing the Velocity Solo in your desktop computer

1. Before installing your drive, take note of the drive's part number, located on the sticker on the front of the drive. This is will come in handy when choosing the destination drive when cloning your drive with EZ Gig.
2. Power-down the system and physically remove power cord(s) from the system.
3. Remove the cover from the system's chassis, following instructions provided by the manufacturer.
4. Select an available PCIe Gen 1 / Gen 2 (x1, x2, x4 or x8) slot and insert the Velocity Solo card into the slot, as shown in Figure 1.
5. Hold the Velocity Solo card at the edges and press down gently into place.
6. Secure the Velocity Solo metal bracket to the system chassis by tightening the slot screw.

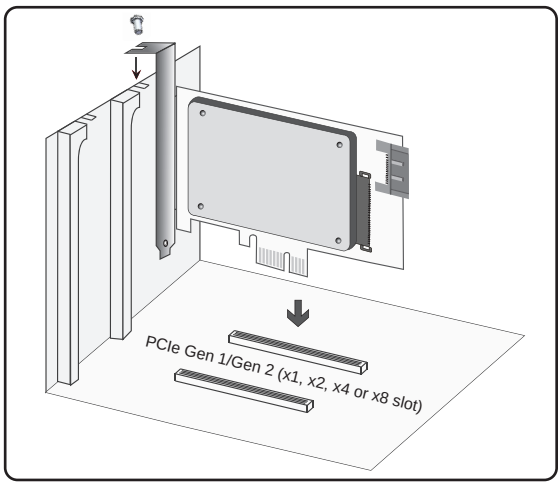
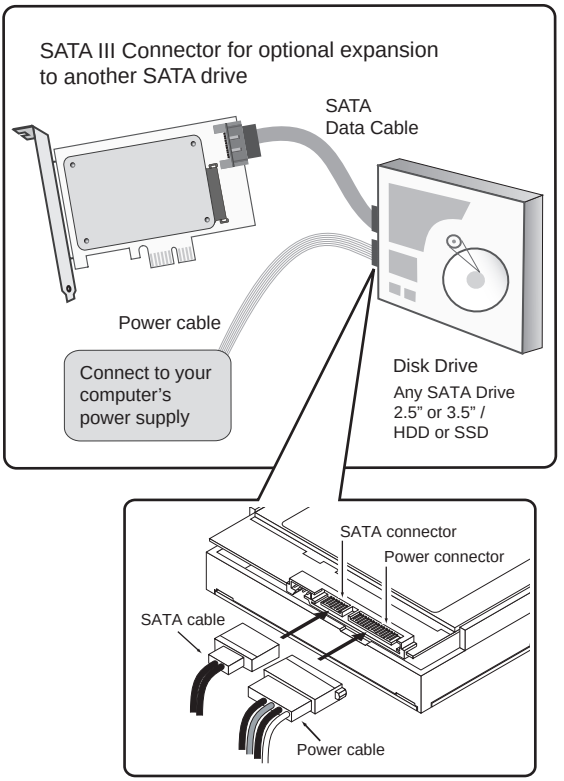


Figure 1. Installing the Velocity Solo on PCIe Gen 1 / Gen 2 slot

Optional - Connecting an additional drive to the Velocity Solo SATA III connector

1. Using a SATA data cable connect an additional drive to the SATA III port on the Velocity Solo card, as shown in Figure 2.
2. Using a power cable connect the drive to your computer's power supply, as shown below.

Figure 2. Connecting the Velocity Solo to a HDD or SSD


SATA III Connector for optional expansion to another SATA drive
SATA Data Cable
Power cable
Connect to your computer's power supply
Disk Drive
Any SATA Drive 2.5" or 3.5" / HDD or SSD
SATA connector
Power connector
SATA cable
Power cable

Verifying Velocity Solo Installation

1. After the Velocity Solo is installed, replace the chassis cover, reconnect the power cord(s) and boot the computer.
2. If the installation is successful, the system confirms detection of the Velocity Solo drive with on screen messages while the drivers are automatically installed.
3. If the Velocity Solo drive is not detected, check the drive and cable connections and ensure that the Velocity Solo is installed correctly in the PCIe slot.

For Windows XP owners, please visit the Velocity Solo product page at:

www.Apricorn.com to download Windows XP Drivers.

Cloning your Internal Drive to the Velocity Solo

Once the Velocity Solo installation is complete, restart your system and download Apricorn's EZ Gig cloning software at the site below:

CLONING SOFTWARE DOWNLOAD

Apricorn EZ Gig Software for Windows®

http://www.apricorn.com/ezgig/

Before Running the Software

After many years of use, hard drives can become cluttered with unusable file fragments and other file-system errors. Most file system errors are not immediately obvious to the user, but can be identified and repaired with a few simple steps. Although the steps below are not absolutely necessary to run EZ Gig, it's best to try and clean-up disk errors BEFORE they are copied over to the new drive.

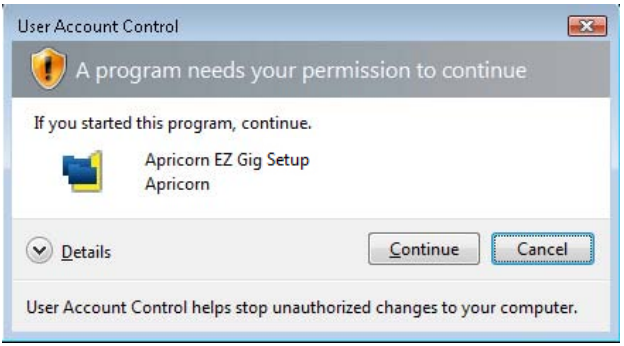
Before running EZ Gig we recommend

1) Clean up any file-system errors by running Windows ScanDisk (or a similar disk cleanup utility) on your internal hard drive.
2) Defragment your hard drive using the Windows Disk-Defragment Utility (or a similar disk defragment utility) on your internal hard drive.
3) Backup any critical files or data.
4) Attach the AC adapter to your laptop, and make sure it is not running on battery power.
5) Attach the USB cable from your computer to the DriveWire.
6) If you plan on running EZ Gig from the Bootable CD-ROM: You may need to change your laptop's BIOS boot order. You will find these options inside the laptop's BIOS Boot Option Menu. The BIOS Boot Options menu allows the user to select the preferred boot device when the laptop starts up. EZ Gig can boot directly from the CD-ROM but you must check the BIOS Boot settings to make sure that "CD-ROM" is higher in the boot order than the C: drive.

EZ Gig instructions for Windows 7 & Vista

Windows 7 and Vista User Account Control helps stop unauthorized changes to your computer. The User Account Control window pops up in Administrator Approval Mode whenever a program tries to run on your Windows system.

When the User Account Control window pops up there will be a warning symbol and message that reads, “A program needs your permission to continue.” The instructions will read “If you started this program, Continue.”



Please click the Continue button and proceed to the EZ Gig Start-Up screen.

Changing the default “Power Options”

Be default the Windows 7 operating system will “Turn display off” after 20 minutes and “Put the computer to sleep” after 1 hour of keyboard or mouse inactivity. It will take more than 20 minutes to clone most of today’s larger hard drives. If the system goes into display is turned off or the computer goes to sleep during the clone, your clone may fail. This will not damage your original hard drive in any way but you will have to restart the cloning process. To avoid this issue change the default “Power Options” before starting the backup on Windows 7 Systems.

From your Window Start menu type “Power Options” in the “Start Search bar” and the “Power Options” program will be listed in the results window. Alternately you can go to Start Menu – Control Panel – Power Options. Click on “Power Options” to launch the program. On the left window click on “Choose when to turn off display” and make the changes as listed below.

Turn Display Off	Never
Put computer to sleep	Never

Once you have completed the clone go to “Power Options” and restore the default settings.

Upgrade Suite (CD-ROM boot)

Upgrade Suite CD is a bootable disk with EZ Gig data transfer utility that can copy hard drives without booting to the Windows operating system. To use Upgrade Suite as a stand-alone utility, your Computer must be able to boot from a CD-ROM, and the CD-ROM must be set as the first boot device in your computer's System BIOS.

NOTE: The System BIOS controls basic hardware functions in computer, and is the first screen that appears when booting your computer (i.e. before the Windows Startup Logo appears on screen). Consult your Computer's User Manual for instructions on how to enter the System BIOS and change the boot order.

To start EZ Gig directly from the CD-ROM

1) Insert the Upgrade Suite CD into your CD-ROM Drive.

2) Turn on the Computer and go immediately into the system BIOS screen.

3) Set the CD-ROM as the First Boot device. Save your changes and Exit the BIOS to reboot the computer.

Helpful tip:

Some newer computers display a "Boot Options" message during startup. Pressing the boot options key allows the user to temporarily change the boot-order of the system. Use this option to boot from the CD-ROM without changing the BIOS settings. The actual keys to activate this option will depend upon the manufacturer (some BIOS use the <F12> key, others use the <ESC> key), and the boot option is only available for a few seconds at startup before the BIOS falls back into the normal boot order.

4) Once the BIOS is set correctly, the CD-ROM should boot-up the computer and start the EZ Gig software.

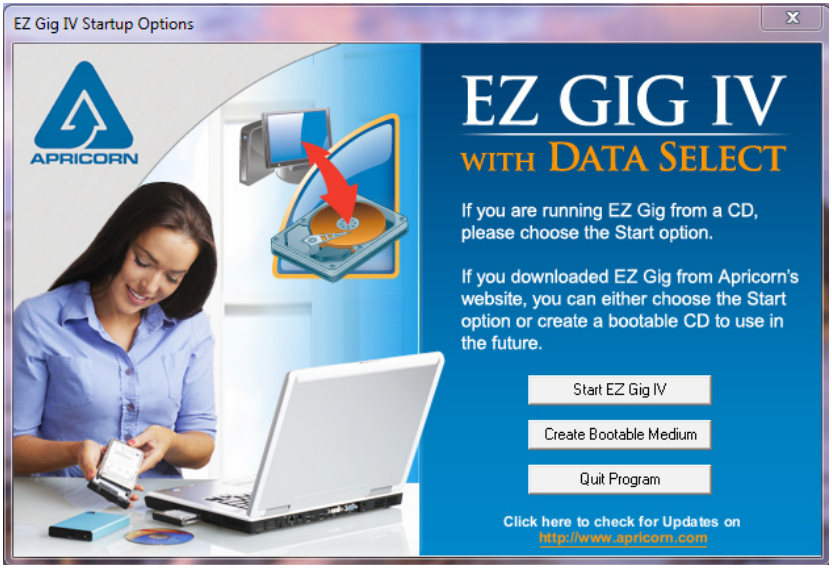
Make sure your Velocity Solo is installed before using EZ Gig

Before starting the EZ Gig software, please ensure that your new solid state drive is connected installed with your Velocity Solo card. EZ Gig automatically verifies which Apricorn upgrade product is being used. If used without one of Apricorn's upgrade products, EZ Gig will not work.

EZ Gig Start Up Options

After downloading EZ Gig from Apricorn's site, open the EZ Gig program or double click on the EZ Gig icon to get started. From here you can either:

1. Choose the Start option (go to page 13) OR
2. Create a bootable EZ Gig CD to use in the future (go to page 12 for instructions).


EZ Gig IV Startup Options
APRICORN
EZ GIG IV
WITH DATA SELECT
If you are running EZ Gig from a CD, please choose the Start option.
If you downloaded EZ Gig from Apricorn's website, you can either choose the Start option or create a bootable CD to use in the future.
Start EZ Gig IV
Create Bootable Medium
Quit Program
Click here to check for Updates on
http://www.apricorn.com

Creating a Bootable EZ Gig CD

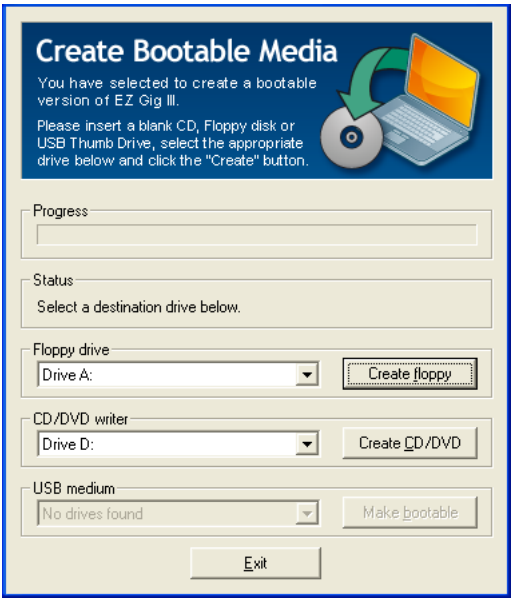
If you downloaded EZ Gig from Apricorn's website, you have the option of creating a bootable EZ Gig CD, floppy disk or thumb drive to use in the future.

To create a bootable media disk follow the appropriate directions below:

- If you want to create a bootable floppy disk, choose the desired drive at 'Floppy drive' and click "Create floppy".
- To create a bootable CD/DVD, choose the desired drive at 'CD/DVD writer' and click "Create CD/DVD".
- To create a bootable USB key, choose the desired drive at 'USB medium' and click "Make bootable".

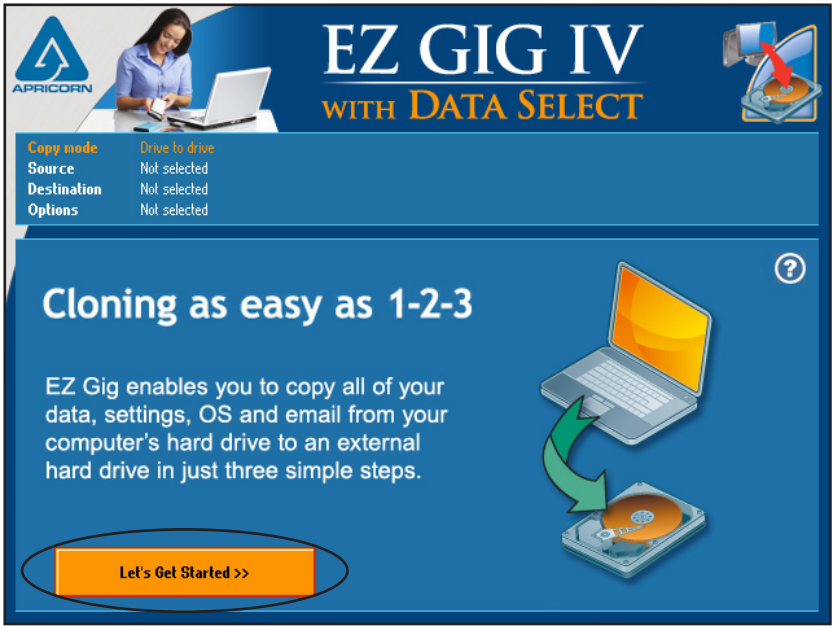
Follow the instructions and wait until the installation program reports successful creation of the bootable medium.

Once you have created you bootable media device, click "Exit" and then choose "Start EZ Gig".



Cloning your hard drive with EZ Gig

1. Click the “Let’s Get Started” button to proceed.
2. EZ Gig will then scan for connected drives. This may take a few moments.

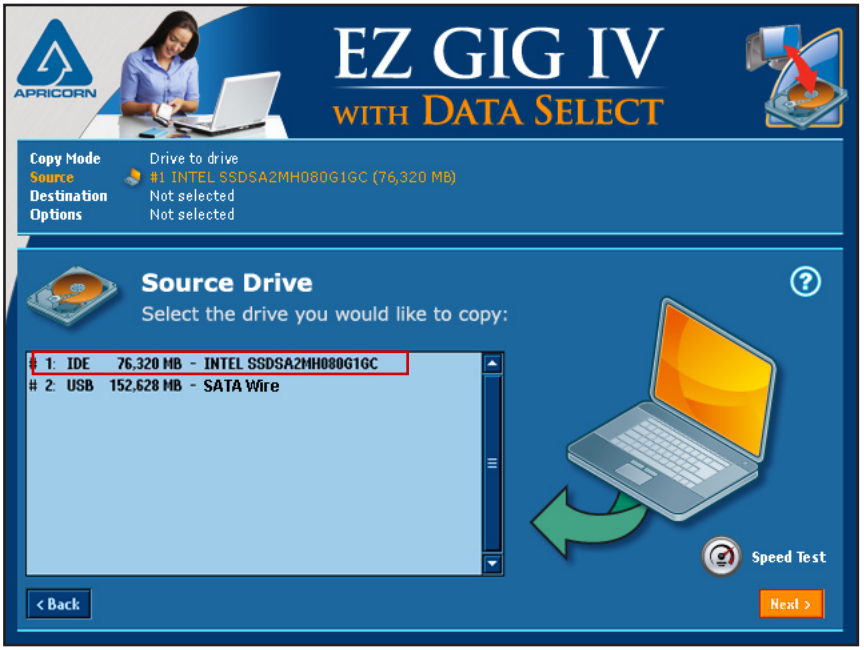

APRICORN
EZ GIG IV
WITH DATA SELECT
Copy mode
Drive to drive
Source
Not selected
Destination
Not selected
Options
Not selected
Cloning as easy as 1-2-3
EZ Gig enables you to copy all of your data, settings, OS and email from your computer's hard drive to an external hard drive in just three simple steps.
Let's Get Started >>

Selecting the Source Drive

Once EZ Gig has scanned for connected drives, you will be asked to select your Source Drive. This is the drive you would like to copy from and in this case is the internal drive in your computer.

NOTE: Both your computer's internal drive and the drive on the Velocity Solo will be denoted by the prefix AHCI or IDE, so take note of your new drive's part number before starting the clone.

Select your computer's internal drive from the menu and click "Next" to continue.

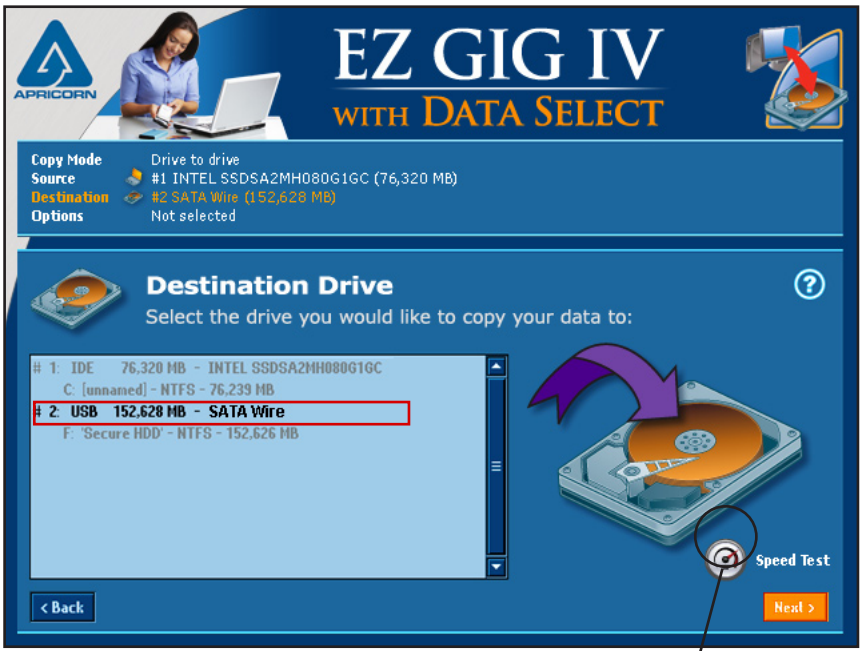


Selecting the Destination Drive

Once you have selected your Source Drive, EZ Gig will ask you to select your Destination Drive. This is the drive you would like to copy to. Select the drive that is connected to your Velocity Solo card.

NOTE: Before installing your new drive on your Velocity Solo card, take note of the drive part number. This will be the Destination drive.

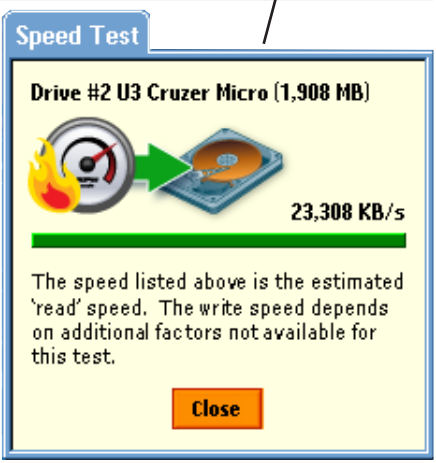
Select the drive on your Velocity Solo card from the menu and click “Next” to continue.


APRICORN
EZ GIG IV
WITH DATA SELECT
Copy Mode
Drive to drive
Source
#1 INTEL SSDSA2MH080G1GC (76,320 MB)
Destination
#2 SATA Wire (152,628 MB)
Options
Not selected
Destination Drive
Select the drive you would like to copy your data to:
1: IDE 76,320 MB - INTEL SSDSA2MH080G1GC
C: [unnamed] - NTFS - 76,239 MB
2: USB 152,628 MB - SATA Wire
F: 'Secure HDD' - NTFS - 152,626 MB
Speed Test
< Back
Next >

Speed Test

Click the Speed Test icon on either the Source or Destination drive for an estimate of the drive’s read speed.

From this estimate, a rough estimate of the clone time may be gauged


Speed Test
Drive #2 U3 Cruzer Micro (1,908 MB)
23,308 KB/s
The speed listed above is the estimated 'read' speed. The write speed depends on additional factors not available for this test.
Close

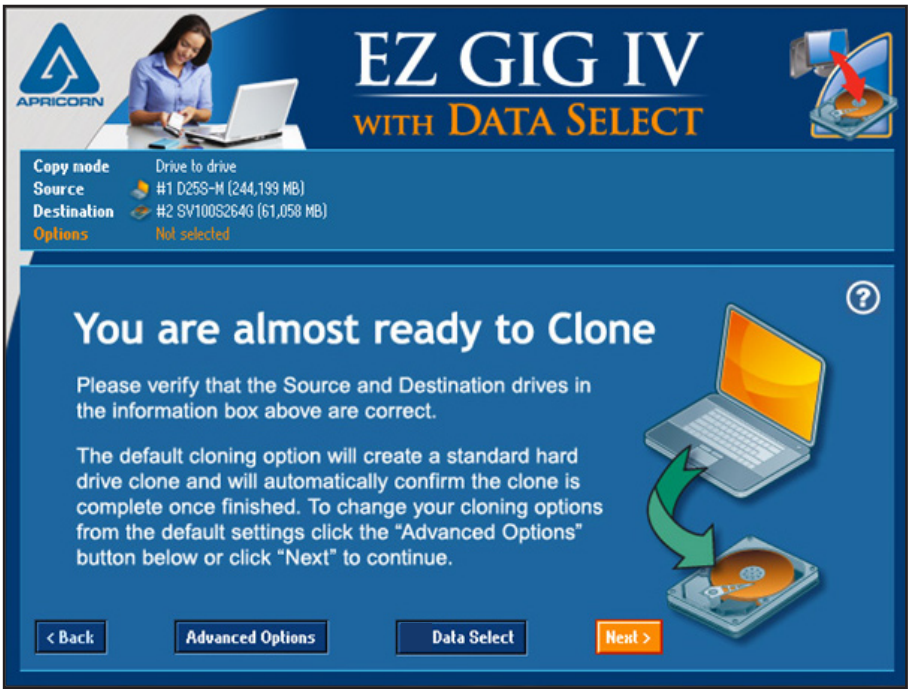
Drive Verification

You are almost ready to start your clone, but before you do, EZ Gig asks that you verify that the choosen drives are correct.

If they are you have one of two options. Either click “Next” to continue (go to page 26) **or to deselect files from the cloning process, press the “Data Select” button** (go to page 17).

If you need to change your drive selection, click the “Back” button

At this point you can also modify the default options for your clone using the “Advanced Options” button. Only select this option if you would like to change your options from the default (go to page 21 for more info on Advanced Options).

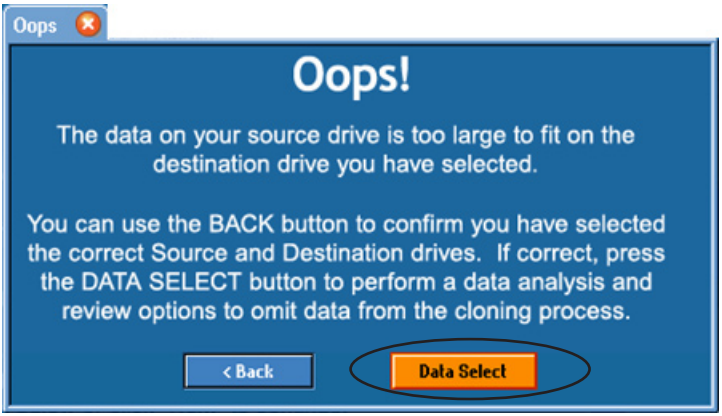

APRICORN
EZ GIG IV
WITH DATA SELECT
Copy mode
Drive to drive
Source
#1 D258-M (244,199 MB)
Destination
#2 SV100S264G (61,058 MB)
Options
Not selected
You are almost ready to Clone
Please verify that the Source and Destination drives in the information box above are correct.
The default cloning option will create a standard hard drive clone and will automatically confirm the clone is complete once finished. To change your cloning options from the default settings click the “Advanced Options” button below or click “Next” to continue.
< Back
Advanced Options
Data Select
Next >

Data Select

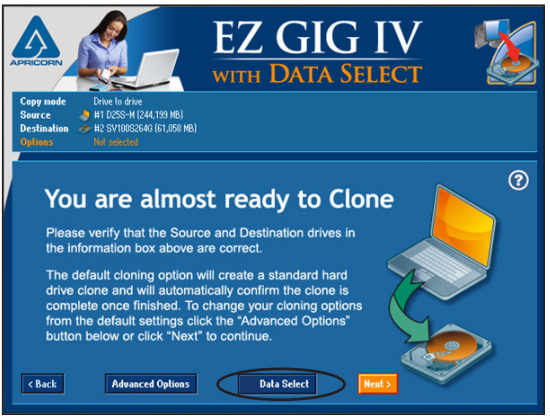
EZ Gig's Data Select feature provides a simple method to deselect data folders from the cloning process which is helpful when migrating from a large HDD to a smaller SSD and perfect for creating a Boot Disk. This gives you the option to run your OS and applications from a fast, smaller SSD boot drive, while keeping your documents and media files on your original hard drive.

There are two ways to get to the Data Select feature:

1. **If the Destination drive is smaller than the Source drive, EZ Gig will direct you to the below screen. To deselect files from the clone click the "Data Select" button, this will open the Data Select feature.**


Oops
Oops!
The data on your source drive is too large to fit on the destination drive you have selected.
You can use the BACK button to confirm you have selected the correct Source and Destination drives. If correct, press the DATA SELECT button to perform a data analysis and review options to omit data from the cloning process.
< Back
Data Select

2. **On the "You are almost ready to Clone" screen, you may press the "Data Select" button to open the Data Select feature.**


EZ GIG IV
WITH DATA SELECT
Copy mode
Source
Destination
Options
You are almost ready to Clone
Please verify that the Source and Destination drives in the information box above are correct.
The default cloning option will create a standard hard drive clone and will automatically confirm the clone is complete once finished. To change your cloning options from the default settings click the "Advanced Options" button below or click "Next" to continue.
< Back
Advanced Options
Data Select
Next >

Using the Data Select feature

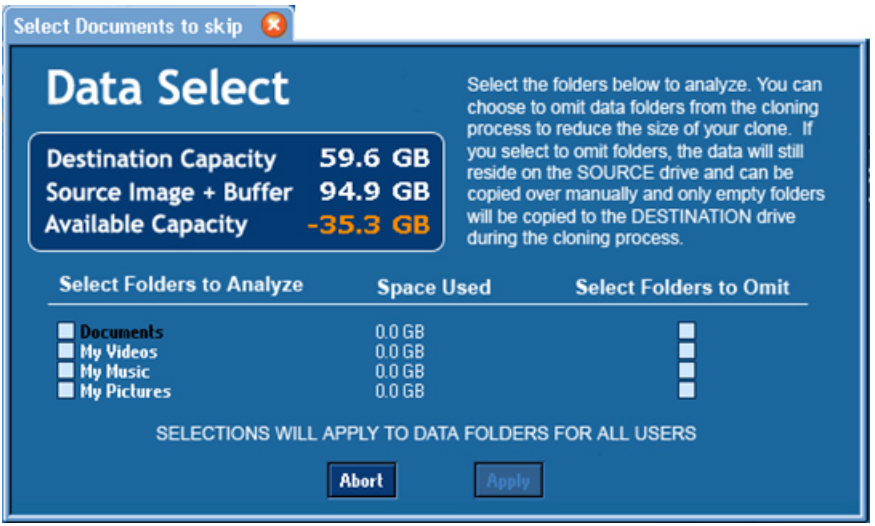
The Data Select feature shows the capacity of the:

- Destination Drive
- Source Drive
- Available Capacity

If the Source drive is smaller than the Destination drive, the available capacity will be highlighted in orange and shown as a negative value.

EZ Gig will only proceed with a clone if the available capacity is positive (i.e. the Destination capacity is larger than the Source capacity.)

In order to decrease the size of the clone (i.e. the Source image), EZ Gig enables you to deselect files from the cloning process to save space.

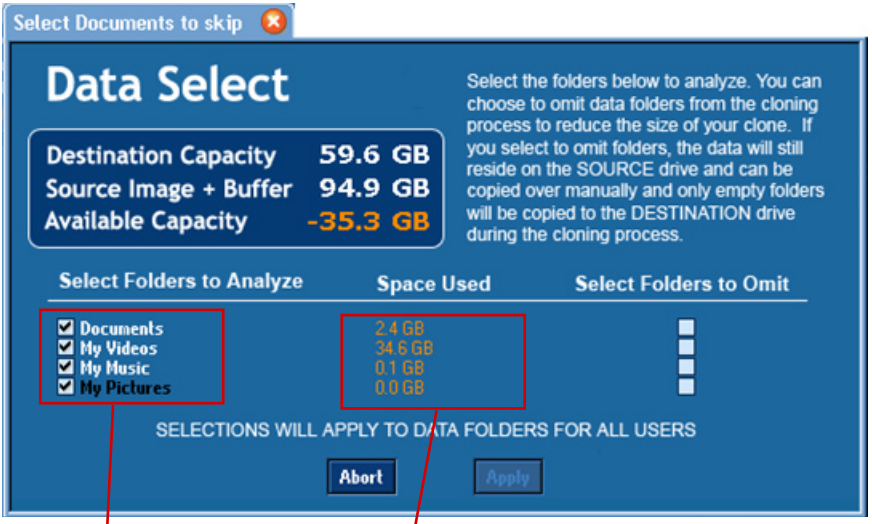

Select Documents to skip
Data Select
Select the folders below to analyze. You can choose to omit data folders from the cloning process to reduce the size of your clone. If you select to omit folders, the data will still reside on the SOURCE drive and can be copied over manually and only empty folders will be copied to the DESTINATION drive during the cloning process.
Destination Capacity 59.6 GB
Source Image + Buffer 94.9 GB
Available Capacity -35.3 GB
Select Folders to Analyze
Space Used
Select Folders to Omit
Documents 0.0 GB
My Videos 0.0 GB
My Music 0.0 GB
My Pictures 0.0 GB
SELECTIONS WILL APPLY TO DATA FOLDERS FOR ALL USERS
Abort
Apply

The files you may deselect from the cloning process are from the folders:

1. Documents
2. My Videos
3. My Music
4. My Pictures

Analyzing files

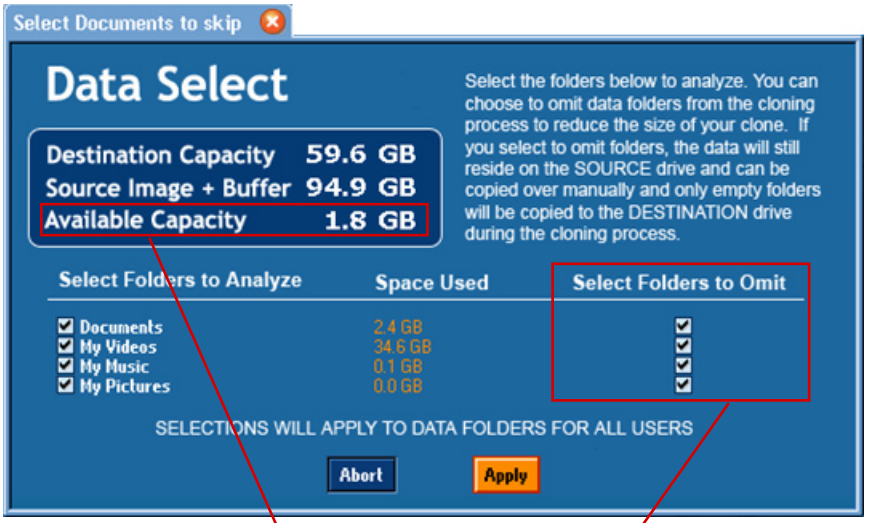
To analyze the amount of space used by each of the folders, select the checkbox to the left, under the “Select Folders to Analyze” column. EZ Gig will then analyze the space used in the ajoining “Space Used” column.


Select Documents to skip
Data Select
Destination Capacity 59.6 GB
Source Image + Buffer 94.9 GB
Available Capacity -35.3 GB
Select the folders below to analyze. You can choose to omit data folders from the cloning process to reduce the size of your clone. If you select to omit folders, the data will still reside on the SOURCE drive and can be copied over manually and only empty folders will be copied to the DESTINATION drive during the cloning process.
Select Folders to Analyze
Space Used
Select Folders to Omit
Documents
My Videos
My Music
My Pictures
2.4 GB
34.6 GB
0.1 GB
0.0 GB
SELECTIONS WILL APPLY TO DATA FOLDERS FOR ALL USERS
Abort
Apply

To analyze the amount of space used by each folder, select the appropriate checkbox.

EZ Gig will then display the space used in the ajoining column

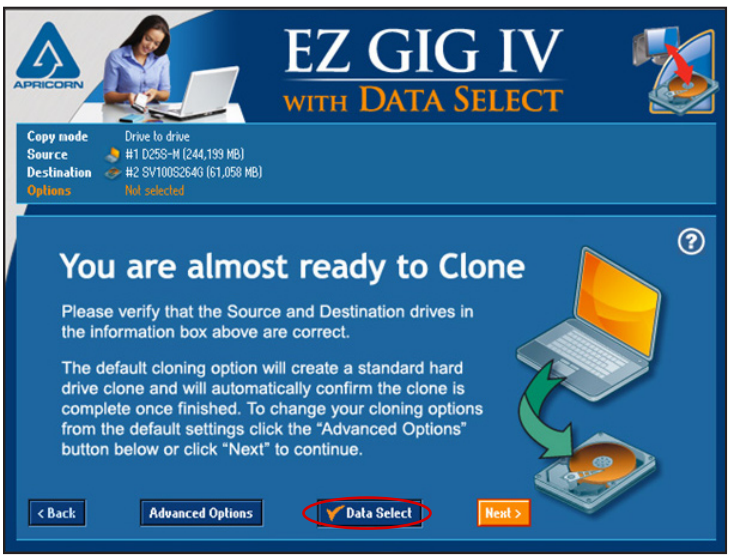
Selecting Folders to Omit


Select Documents to skip
Data Select
Destination Capacity 59.6 GB
Source Image + Buffer 94.9 GB
Available Capacity 1.8 GB
Select the folders below to analyze. You can choose to omit data folders from the cloning process to reduce the size of your clone. If you select to omit folders, the data will still reside on the SOURCE drive and can be copied over manually and only empty folders will be copied to the DESTINATION drive during the cloning process.
Select Folders to Analyze
Space Used
Select Folders to Omit
Documents 2.4 GB
My Videos 34.6 GB
My Music 0.1 GB
My Pictures 0.0 GB
SELECTIONS WILL APPLY TO DATA FOLDERS FOR ALL USERS
Abort
Apply

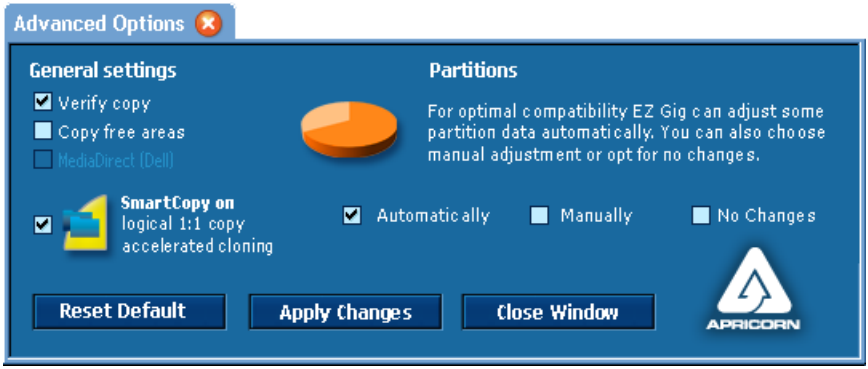
To select folders to omit, select the checkboxes to the right, under the “Select Folders to Omit” column. Any selection from this column will automatically be reflected in an updated amount for the “Available Capacity” value. Once the “Available Capacity” value is positive, you will have the option to “Apply” the changes.

Once you hit the “Apply” button, you will be directed to the “You are almost ready to Clone” screen. The Data Select button will have a check mark to the left, indicating that you have choosen to omit files from the clone.

To continue with the clone, click the “Next” button (go to page 21).


APRICORN
EZ GIG IV
WITH DATA SELECT
Copy mode Drive to drive
Source #1 D2SS-M (244,199 MB)
Destination #2 SV10082640 (61,058 MB)
Options Not selected
You are almost ready to Clone
Please verify that the Source and Destination drives in the information box above are correct.
The default cloning option will create a standard hard drive clone and will automatically confirm the clone is complete once finished. To change your cloning options from the default settings click the “Advanced Options” button below or click “Next” to continue.
< Back
Advanced Options
Data Select
Next >

Advanced Options



Verify Copy

Compares the data of source and target after copying. If verify copy is chosen, the free areas between partitions will also be copied. This option has no influence on the copying performance itself, but offers the possibility to synchronize the data of the source and target after the copying process. However, the whole process of copying and verifying then normally takes approximately the double amount of time. Choose this option according to your needs of copying and your time available.

Copy Free Areas

This option is off when doing a default clone, but when selected allows you to copy free space between partitions from your internal drive to your external drive.

SmartCopy

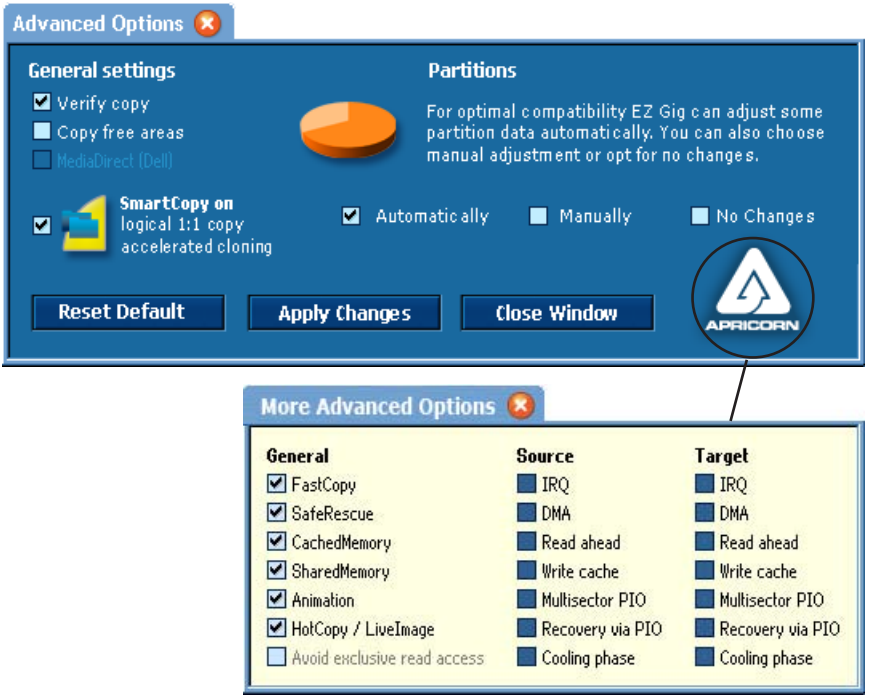
SmartCopy enables you to clone your file systems in a fraction of time usually required - this option is chosen by default

Media Direct (Dell)

Used to deactivate MediaDirect software on the Destination drive. Check your Dell notebook specs to see if you have Media Direct on your system.

More Advanced Options

To access additional advanced options, click on the Apricorn logo in the bottom right corner of the “Advanced Options” window



FastCopy

Special copy algorithm. Can increase the regular copy speed up to double.

SafeRescue

Special algorithm for data recovery. Tries to recover as large areas on the drive as possible. Can also stay turned on for normal copies.

CachedMemory

Use fast intermediate memory.

SharedMemory

Use fast data transfers.

Animation

Switch off copy animation, may lead to a slight speed increase.

HotCopy / LiveImage

Allows or denies EZ Gig access to the Windows shadow copy mechanism. If this option is deselected, EZ Gig is not able to create copies or file images of the system volume or of volumes, which are used by other programs at the same time.

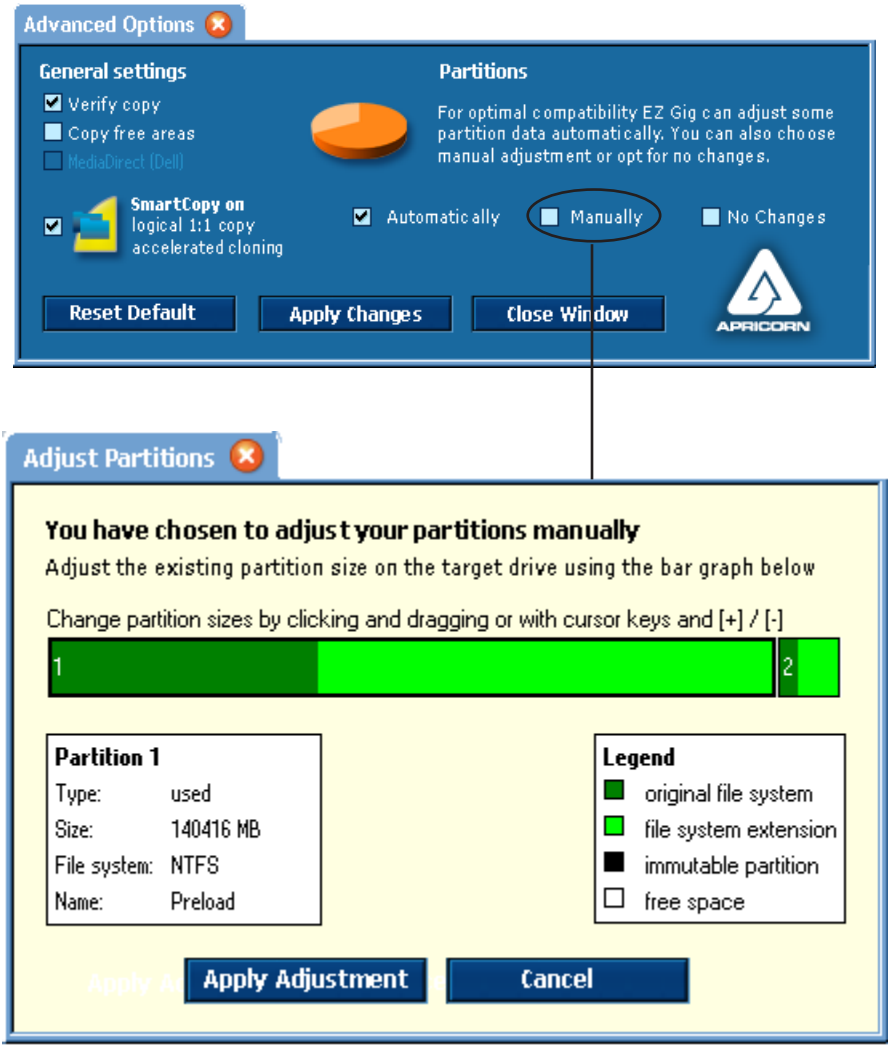
Avoid exclusive read access

Usually, EZ Gig when running on Windows, at first tries to reserve the source drive for exclusive access. This is the most reliable way for creating an identical copy, but it may interfere with other programs running at the same time. If this option is selected, EZ Gig tries to create a HotCopy or a LiveImage at first.

Partitions

When used in the Default mode, EZ Gig will automatically resize your partitions according to the new hard drive space.

However, EZ Gig also gives the option of keeping your partition sizes the same or allows you to resize your partition sizes manually.



Resizing your partitions manually

To resize your partition manually:

1. Choose the “Manually” radio button on the “Advanced Options” window.

2. Once this radio button is selected, click the “Apply Changes” button. The “Adjust Partitions” window (shown left) will pop up.

Positions and sizes of the partitions to be copied to the Destination drive are displayed graphically in a bar. The original size of the partition is displayed in dark green, while the additionally assigned space is displayed in light green. The size of partitions displayed in black cannot be altered. Free space not yet assigned to any partition is displayed in white.

3. To resize, click the desired partition’s extended space (light green portion) and drag with your mouse. You can also use the [+] and [-] cursor keys to the same effect.

4. Once you have resized the partitions to the desired size, choose “Apply Adjustment” which will then close the window.

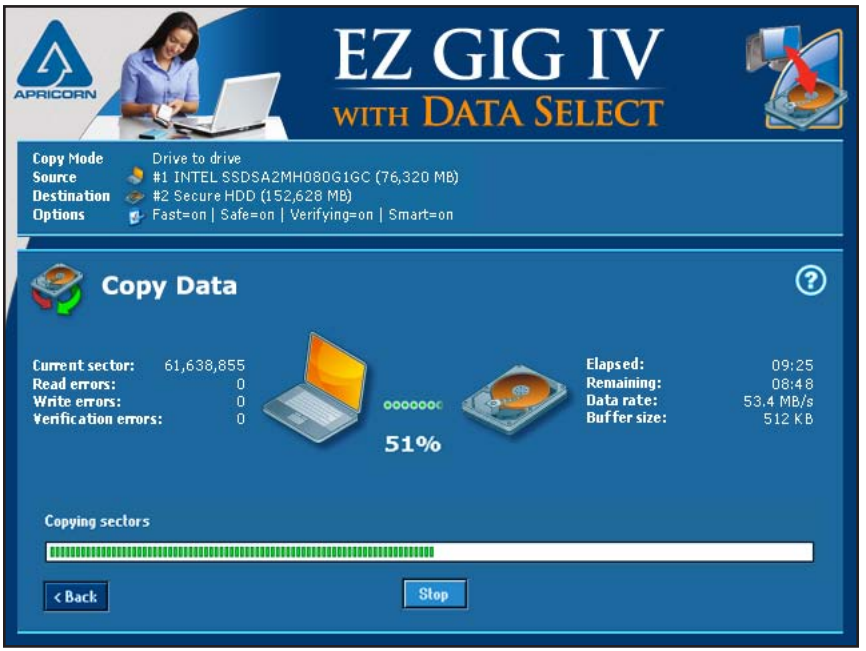
5. Once the “Adjust Partition” window is closed, close the “Advanced Options” window by clicking the “Close Window” button.

Start Clone

Now you're ready!

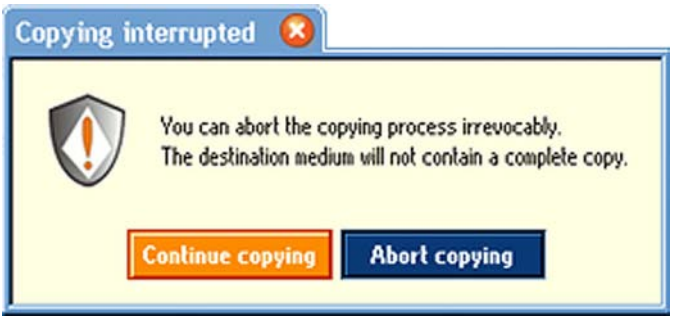
Press the "Start Clone" button to start the cloning process.

EZ Gig will keep you up-to-date with the status of the clone throughout the entire process with a progress bar and percentage completed. Depending on your system size a clone can take anywhere from several minutes to a couple of hours.



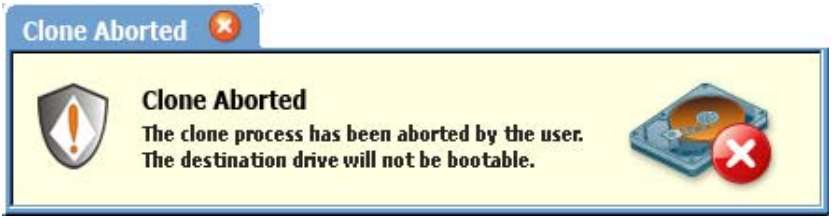
Interupting the Cloning Process

The cloning process can be stopped at anytime using the “Stop” button. Continue cloning by clicking “Continue copying”. To stop the clone completely, select “Abort copying.”


Copying interrupted
You can abort the copying process irrevocably.
The destination medium will not contain a complete copy.
Continue copying
Abort copying

Aborting the Cloning Process

If the cloning process aborted, a new clone must be commenced.



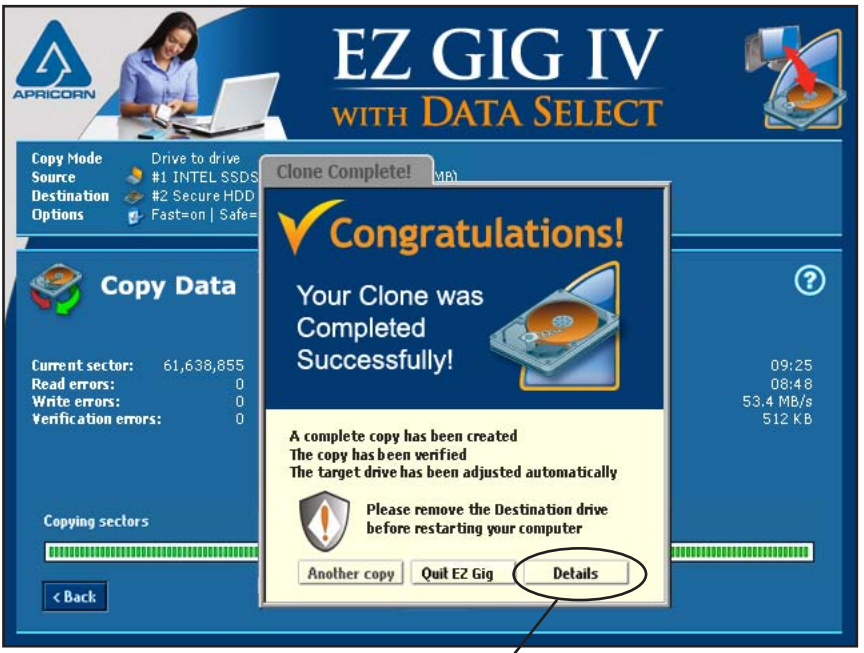
Interupting the Verification process

If you chose the “Verify Copy” option before starting the clone, EZ Gig will automatically compare the information on the “Source” and “Destination” drives once the clone is complete. If this process is interupted or stopped at anytime, the aborted verification run will have no influence on the copied data. The copy itself is already finished at that point of time.

When the final report is read, EZ Gig will report that the clone is only partially verified.

Congratulations your Clone is Complete

Once your clone is complete, EZ Gig will let you know with a pop up window. To get a report of the cloning process, click the “Details” button.



The final report will outline the number of sector copied, read errors, write errors and if verified, will also report verification errors.

Once you have finished your clone, click “Quit EZ Gig”. You will then be prompted to turn your computer off and disconnect the attached hard drive.

After the Clone - Changing your boot drive

Once you have cloned your system to your Velocity Solo drive, you have two options.

1. Remove your original drive, thereby forcing your system to boot from the Velocity Solo drive.

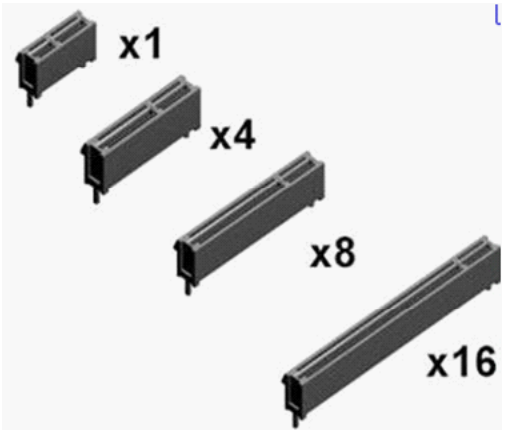
2. Go into your system's BIOS and change your boot order to the Velocity Solo drive, keeping your original drive for storage.

Entering your computer's BIOS to change the boot order is dependent on your particular system. For directions that apply to your particular system, please refer to your computer's product manual.

Velocity Solo FAQs

1. What does a PCI-e slot look like?

The velocity Solo can be used in any of the slots shown below.



2. What version of PCI Express does the Velocity Solo card use?

The Velocity Solo uses PCI Express 2.0. It is backwards compatible with PCI Express 1.0 but it will work at the slower speed.

3. What kind of drives can be used with the Solo?

Any 2.5 SATA hard drives can be attached on the card and any standard SATA drive (Laptop or Desktop style) can be attached using the open SATA connector. It will work with both Generation 1 and 2 SATA drives but best performance is seen with Gen 2 or SSD drives.

4. How do I format my drive?

For Windows 2000 and XP cut & paste or type the URL below into your Internet browser or click the link below:
http://support.microsoft.com/?kbid=313348

For Windows Vista & 7 cut & paste or type the URL below into your Internet browser or click the link below:
http://windows.microsoft.com/en-US/windows7/Create-and-format-a-hard-disk-partition

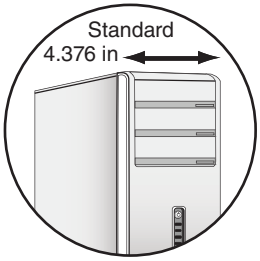
5. Can the Solo card be used in a Mac?

Yes. At this time, it cannot be used as the boot drive however – only as a storage drive.

6. How do I set the Velocity Solo to be my boot drive?

Clone your original drive to the new disk on the Velocity Solo. Then enter the BIOS settings during the boot up and navigate to the section of the BIOS where the boot sequence is identified. Move the drive on the Velocity Solo ahead of the currently selected boot drive.

7. Will the Velocity Solo work in a low profile desktop computer?
No. The Velocity Solo is a "Full Height" add-in card and will not fit in a low profile or "slim" computer. See the image below to see the width of a Standard Desktop System.



8. What software is included with my Velocity Solo?

PC Software Includes: EZ Gig IV with Data Select

EZ Gig for Windows is one of the most powerful yet easy to use back-up utilities available. EZ Gig IV is the fourth generation of the award winning EZ Gig Data Transfer Utility.

MAC Software Includes: ShirtPocket SuperDuper! for Mac

SuperDuper! is the wildly acclaimed program that makes recovery painless, because it makes creating a fully bootable backup painless. Its incredibly clear, friendly interface is understandable, easy to use. And it runs beautifully on both Intel and Power PC Macs! SuperDuper's interface confirms all your actions in simple, clear language to ensure that the end result is exactly what you intended.

9. Do I have to use the Apricorn EZ GIG software with my Velocity Solo?

No. Apricorn provides EZ GIG as easy to use software intended to clone your existing operating system to a disk attached to the Velocity Solo. You are not restricted from using any other software.

10. Am I required to attach my original disk to the expansion port on the back of the Solo?

No. The expansion port on the back of the Solo is a SATA 3 connection that may provide additional performance to any disk attached to it, but you are not required to use it. Your original disk can remain attached directly to your motherboard or if unneeded can be removed completely.

11. How fast is SATA 3?

SATA 1 max uncoded transfer rate is 150 MB/s (Megabytes per second), SATA 2 is 300 MB/s and SATA 3 is 600 MB/s. Most spinning disks cannot deliver data faster than SATA 2 and for this reason, Apricorn recommends using a high speed Solid State Disk with the Velocity Solo to achieve the greatest performance.

EZ Gig FAQs

The below FAQs refer to cloning your hard drive with EZ Gig only. For information on issues using Shirt Pocket SuperDuper! software for Mac, please go the ShirtPocket's website at www.ShirtPocket.com

Load errors

During the start of the program, before EZ Gig is loaded itself, a message and a progress bar will appear on the boot screen. In case of an error, one of the following error codes will be indicated here.

Error #5002 and 'Disk error'

This error will be displayed if the boot medium is not readable when booting the program. The error is reported by the BIOS of the computer and points to a defective data carrier or a problem with the used boot drive. In many cases, in particular when booting from a floppy disk, an incompatibility between drive and data carrier is the cause. Principally this problem can be fixed. Please try the following steps, at best in the indicated order:

- Try again to boot the program, perhaps with/without cold start.
- Create once again a bootable disk (page 10).
- Floppy disk: format the floppy disk (no quick format) before creating a new one.
- Floppy disk: use another floppy disk.
- Use (if possible) another boot drive.

NOTE: If you didn't receive EZ Gig as an installation package but on a bootable disk and if a disk shows this problems also after multiple trials on different devices, please contact Support.

Keyboard and mouse

EZ Gig supports keyboards and mice with PS/2 standard or USB connector. This also includes many wireless mice, given they are connected as a true USB device. Input devices connected with Bluetooth are currently not supported. In this case, please connect a separate USB device. If keyboard or mouse (or both) do not function with EZ Gig, this is usually due to a wrong legacy emulation setting in BIOS setup. On most computers, you can fix this problem by changing (activating or deactivating, depending on the current setting) the emulation for PS/2 devices in BIOS

setup. Please consult your computer manual on how to change this setting since it may be named differently according to the respective BIOS. In most of the cases, you can find it under the name USB Legacy Support or USB Keyboard Support (often under Integrated Peripherals or Advanced Options).

NOTE: In some of the cases, problems with the PS/2 keyboard and/or mouse occurred with an activated emulation for PS/2 devices. If you do not use any USB input de-vices, please switch off the PS/2 emulation in the BIOS setup.

General problems

Slowed down system

If you think the speed of the total system or the copying speed – also with IDE and SCSI devices – is too slow, a USB controller can be the cause, even if it is not used.

Read, write and verification errors

If EZ Gig reports errors, these are usually defective areas on the respective medium. However, general problems with the hardware can possibly also cause (putative) read and write errors. This is mostly noticeable by a very high number of displayed errors. First of all, try to fix the problem via the help instructions for the respective hardware types (IDE, SCSI, USB) because the causes are usually found there. If the problems cannot be fixed this way either, deactivate step by step the following options, at best in the indicated order:

- CachedMemory
- Read cache and write cache
- FastCopy
- DMA
- SharedMemory

If the problem does not occur any more after having deactivated a certain option, the previously deactivated options can be reactivated as a test.

IDE/ATA/SATA

Hard disk not recognized

If EZ Gig does not recognize a hard disk, there can be several reasons. Perhaps the controller which the disk is connected to has not been found (See next section: IDE controller not found). A further possible reason can be a non-standardly connected hard disk. This is for example the case if

a hard disk is configured as slave and if a CD/DVD drive or no drive at all is connected at the same IDE channel as master. Normally, EZ Gig can handle that, too.

NOTE: If an SATA hard disk is not recognized, this can also be due to the used SATA controller.

IDE controller not found

There are the following three reasons why EZ Gig has not automatically recognized an IDE controller:

- The IDE controller/channel is deactivated, e.g. on an onboard IDE controller. Activate the IDE controller/channel via the BIOS setup.
- Standard IDE controllers (ISA) are not taken into account if PCI IDE controllers are available. Connect the respective hard disk to a PCI IDE controller in this case or deactivate the PCI IDE controller or controllers.
- The used controller does not correspond to the PCI IDE standard. Although most controllers support this standardized programming interface, there are some controllers which have only a proprietary programming interface. Connect the corresponding drives to another controller (PCI IDE controller).

Source & Destination Size Differences

Equal Size

If source and target are of the same size, EZ Gig creates an absolutely identical copy(clone). On this clone, all sectors on source and target, from the first to the last sector, are 100% identical, provided that the process was error-free.

Small to large

If the source is smaller than the target, EZ Gig copies only the data that is available on the source. This data is copied from the beginning of the source onto the beginning of the target medium. The area at the end of the target medium, which is larger than the source, remains unaffected. Apart from that the unaffected area remains possibly unused during a later usage, such a copy is usually comparable to a real clone as far as the capacity of use is concerned because the target contains entirely all data of the source

Large to small

If the source is bigger than the target, EZ Gig will direct you to the Data Select feature. EZ Gig's Data Select provides a simple method to deselect data folders from the cloning process. EZ Gig will only allow to proceed with the clone, once the available capacity on the target drive is a positive value.

Automatic troubleshooting

In case of occurring errors, EZ Gig tries to troubleshoot them the best possible. If this is not possible, the errors will be mentioned in a corresponding error statistic in the detailed report after the clone is complete.

Intensive reading/writing

In case of read or write errors, EZ Gig uses different strategies in order to still be able to read or write this data, if possible. The time used for defective areas depends to a large extent on the respective medium. According to the medium and its state, several seconds up to minutes can be needed for the recovery trials. Therefore, it is recommended to always activate the option SafeRescue because then handling defective sectors takes place after the copying of all intact areas has been finished. The process can then be aborted if it takes too long without losing the data of the intact areas.

Read errors

During the copying process, read errors can only occur on the source medium. EZ Gig then tries to read the defective areas immediately after the termination of the copying process (with the option SafeRescue) with the help of special data recovery strategies within a single troubleshooting run. During the troubleshooting run, the number of the indicated read errors can reduce according to the areas on the source medium, which could be recovered.

NOTE: Read errors, that occur during the verification run, are not counted as read errors but as verification errors.

Write errors

Write errors can only occur during the copying process and only on the target medium. EZ Gig then tries to read the defective areas immediately after the termination of the copying process (with the option SafeRescue) with the help of special data recovery strategies within a proper troubleshooting run. During the troubleshooting run, the number of the indicated write errors can decrease according to the areas on the target medium, which could be recovered.

Verification errors

When the option Verifying is activated, EZ Gig executes a verification run after the copying process. A verification error is counted if the data of two sectors on source and target do not correspond. Furthermore, read errors, which occur during the verification run in one or both of the areas to be compared, are also counted as verification errors. Therefore, the number of verification errors gives you absolute information on how exactly source and target correspond to each other after the copying process. In case of an error-free copying process, EZ Gig should not report any verification errors and signalize a 100% conformity of source and target.

Contacting Technical Support

Apricorn provides the following helpful resources for you:

1. Velocity Solo User's Guide and Quick Start Guide
2. Apricorn's Website (http://www.apricorn.com)

   This gives you the ability to check for up-to-date information.

3. E-mail us at support@apricorn.com.
4. Or call the Technical Support Department at 1-800-458-5448.

   Apricorn's Technical Support Specialists are available from 8:00 a.m. to 5:00 p.m., Pacific Standard Time from Monday through Friday.

RMA Policy

An RMA (Return Merchandise Authorization) tracking number must be issued by Apricorn. If you need to return or replace your upgrade kit, Apricorn requires that you perform the following steps:

1. Find your original receipt.
2. Simply call Apricorn's technical support department with your upgrade kit part number and a description of the problem(s) you are experiencing.
3. If the Apricorn representative finds cause for a return, they will issue an RMA number. Please write this number down.
4. Fill out an RMA authorization form with your package. The RMA form is available on-line at http://www.apricorn.com/support/rma.php.
5. Please send the prepaid package including RMA form and receipt to the following address, make sure the RMA# is written on the exterior of the package:

   Apricorn
   RMA#: _____
   12191 Kirkham Road
   Poway, CA 92064

The purchaser shall be responsible for any loss or damage to the returned product until it is received by Apricorn. Purchaser should consider obtaining insurance with respect to shipping the product.

Warranty Conditions

Warranty:
Apricorn offers a 1 year warranty on Velocity Solo against defects in materials and workmanship under normal use. The warranty period is effective from the date of purchase (validated by your original receipt) either directly from Apricorn or an authorized reseller.

Disclaimer and terms of the warranties:
THE WARRANTY BECOMES EFFECTIVE ON THE DATE OF PURCHASE AND MUST BE VERIFIED WITH YOUR SALES RECEIPT OR INVOICE DISPLAYING THE DATE OF PRODUCT PURCHASE.

APRICORN WILL, AT NO ADDITIONAL CHARGE, REPAIR OR REPLACE DEFECTIVE PARTS WITH NEW PARTS OR SERVICEABLE USED PARTS THAT ARE EQUIVALENT TO NEW IN PERFORMANCE. ALL EXCHANGED PARTS AND PRODUCTS REPLACED UNDER THIS WARRANTY WILL BECOME THE PROPERTY OF APRICORN.

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